OLD-ESTABLISHED WHOLESALE IRONMONGERY WAREHOUSE, Kitchen-Range, and Stove-grate Manufactory, 13, Crown-street, Walworth.

JOHN GRICE most respectfully solicits the attention of Architects, Builders, and Carpenters, to his Stock of Black and Bright Stoves, Kitchen Ranges, &c. &c.

Black Registers, from 6d. per in. and upwards.
Bright ditto, with Black and Bright Bars, 2 lbs. and upwards.
Self-acting Kitchen Ranges, with Oven and Back Boiler:—
3 ft. 3l. 5s.   3 ft. 6 in., 3l. 15s.
Elliptic Stoves, with double backs, 3d. per in.

All articles made on the premises and warranted, and delivered free of expense within five miles of London. Bell-hanging in superior style, hung in secret, 5s. per pull.

TO BUILDERS, CARPENTERS, &c.—The undermentioned are the PRESENT PRICES of IRONMONGERY, at YOUNG'S, 164, Oxford-street. Every other article equally low. Orders executed upon receipt of remittance or a respectable London reference.—

3 3½ 4 Inches.
Cast Butts .... 3s. 3d. 7s. 6d. 11s. per 3 dozen.
Cut .... 6d. 7½d. 10d. 2s0d. } per
Clasp .... 5½d. 7d. 1s. 2d. 1s. 9d. } 1,000.
Nos. 3 4 5 6
Patent Line .... 4s. 6d. 7s. 3d. 9s. 10d. 12s. per gross.
3 3½ 4 Inches.
Rain Pipe .... 1s. 1d. 1s. 3d. 1s. 3d. per yard.

TO BUILDERS and CARPENTERS.—Elliptic Stoves, double backs, 3d. per inch. Registers, 6½d. 7d., 8d. per inch.

Cottage Ranges, with Ovens and Boilers, 3 ft. 3 in. 40s.; 3 ft. 4 in., 42s.; 3 ft. 6 in., 44s.

Self-acting Ranges, with Circular Oven and Back Boiler, best Wrought Bars and Bright Fittings.
3 ft. 4l. 8s.   3 ft. 6, 4l. 7s.   4 ft. 4l. 15s.

Best Patent Cut Clasp.
4½d. 5½d. 7d. 10d. 1s. 3d. 1s. 9d. per 1,000
5d. 6d. 8d. 9d. 1od. 2od.

Best Short Floor Brads 13s. per cwt.
Best Town Glue 56s. Do. Scotch, 72s. per cwt.

Best Patent Sash Line.
4s. 9d. 5s. 6s. 6d. 7s. 6d. 9s. 12s. per gross.
1 2 3 4 5 6

At F. R. WILLIAMSON'S IRONMONGERY and STOVE WAREHOUSE, 98, Chiswell-street, Finsbury-square.

Lists of Prices had on application at the Warehouse, or by letter pre-paid, including postage stamp.—Warehouse closes at 7 o'clock.

TO ARCHITECTS, BUILDERS, &c.

HAYWARD, BROTHERS, late R. HENLY and Co. WHOLESALE IRONMONGERS, and Manufacturers of KITCHEN RANGES, STOVES, &c. 196, Blackfriars-road, and 117, Union-street, Borough.

Strong Self-acting Kitchen Ranges, with Back Boiler and Oven and Wrought Bars:—

3 ft.	3 ft. 3 in.	3 ft. 6 in.	3 ft. 9 in.	4 ft.
£3	£3 10s.	£3 15s.	£4	£4 10s.

Henly's Patent Improved, with Back Boiler and Wrought Iron Oven:—

3 ft.	3 ft. 3 in.	3 ft. 6 in.	3 ft. 9 in.	4 ft.
£3	£3 15s.	£4 5s.	£4 15s.	£5.

Best Register Stoves, at 7d., 6d., and 8d. per inch.
Do. Elliptic 4d., 4d. 3½d., and 4d. do.

Manufacturer of WOLFASTON'S PATENT REGISTER STOVES, a certain cure for SMOKY CHIMNEYS, and effecting a great saving in fuel. To be seen in use daily.

Orders from the Country, accompanied with a remittance or reference, will meet with prompt attention.

IRONMONGERY WAREHOUSE.—D. and W. PRICE, 16, Newington-causeway, Southwark, opposite the Elephant and Castle.—Self-acting Ranges, with circular Ovens and back Boilers.

3 feet, 3l. 3s.; 3 feet 4 inch, 3l. 13s.

Register Stoves, 6d. per inch and upwards; Elliptic Stoves, with double back, 3d. per inch.

Best Cut Clasp per cwt.
6d., 16s. 6d.   8d., 13s. 6d.   10d., 14s.   20d., 13s. 6d.

Best Short Floor Brads, 12s. 6d. per cwt.
Best Cast Lath Nails, 10s. 6d.
Six inch Rim Locks, best furniture with patent Spindles complete, 13s. 6d. per dozen.
Sash Weights, 6s. per cwt.; Sash Pulleys (bushed), 7s. 6d. per gross.
Builders, Carpenters, and others supplied with every description of ironmongery of the best quality, at the lowest Birmingham prices.

IRON FOUNDRY, 9, Brick-lane, Old-street, St. Luke's.—J. J. JONES having made great additions to his STOCK OF PATTERNS, begs to inform the Trade, that he can now supply them with Plain and Ornamental Iron Columns, Girders, Railings, Gates, Iron Coping, Balconies, Window Guards, Verandahs, Ornamental Staircase Panels, Iron Staircases, Tomb Enclosures, Trellis Paneling, Lamp and other Brackets, Cantilevers, Newel Bars, Water Closet Work, Area Gratings, Fly and other Wheels, Wheel Plates, &c.

BAKERS' OVEN WORK, Forge Backs and Troughs, Rain Water Pipes and Gutters, Sash Weights, Furnace Bars, Stoves, Ranges, &c. always in stock.

IRON FOUNDRY,
69, DRURY-LANE, and CHARLES-STREET, DRURY-LANE.
JOSEPH GLOVER,

Solicits the attention of the Trade to his extensive Stock of PATTERNS for CASTINGS of EVERY DESCRIPTION, consisting of those for every purpose, either structural or ornamental.

Wheel Pinion and Steam-Engine Patterns; Range Stove and Hot Plate Metal.

A stock of Rain-Water Pipes, Plain and O G Guttering, Air Bricks, Sash Weights, &c. &c.

A very superior description of Soot Door, particularly suitable for internal work, being perfectly secure, and not unsightly.

ESTIMATES given for IRON ROOFING and every description of Ironwork, complete to specification, and the work executed with every attention to quality and dispatch.

GLOVER'S FOUNDRY,
169, DRURY-LANE, and CHARLES-STREET.

TO ARCHITECTS, BUILDERS, AND BRICK-MAKERS.

PUMPS of Superior CONSTRUCTION, bored perfectly true by improved machinery, in various plain and ornamental patterns for Conservatories, Squares, Market Places, Roads, Gardens, and for Liquid Manure. BRICK-MAKERS' PUMPS, in Wrought and Cast Iron. HYDRAULIC LIFT PUMPS, and ENGINES for Wells of any depth. SINGLE and DOUBLE PUMPS up to twelve-inch bore, kept for Hire.

BENJ. FOWLER, 63, Dorset-street, Fleet-street.

CAST-IRON PIPES, IRON WORK FOR OVENS, &c.

RAIN PIPES, &c.—F. A. TIDDEMAN, Purfleet Wharf, Earl-street, City, near Blackfriars-bridge, keeps a large stock of Rain Pipes, Heads, Shoes, Elbows, &c., half round and O. G. Gutters, Socket Pipes for Water or Gas, Flanch Pipes, Sash Weights and other Castings; Iron Work for Baker's Ovens of every description, fitted complete, to be had in sets or in parts.—Prices equal to all competition. Contracts taken to any extent.

BUILDERS and CARPENTERS' IRONMONGERY WAREHOUSE, 18, Blandford-street, Manchester-square, leading out of Baker-street, Portman-square. Lists of prices may be obtained on pre-paid application.

JOHN and EDWIN YOUNG, Proprietors.

TO THE OWNERS OF SAW MILLS, PLANTATIONS and Collieries; to Builders, Millwrights, Engineers, &c.

IMPROVED CIRCULAR SAWS, Upright Saws, for timber and deal frames; Patent Tempered Machine Plane Irons, saw files, improved engineers' files; Patent Tempered Machine Knives, and cutters of all descriptions, made on the most scientific and economical principles, with dispatch, by BLAKE and PARKIN, the Meadow Steel Works, Sheffield.

LAP WELDED IRON TUBES.—W. H. RICHARDSON, Jun., and Co., MANUFACTURERS of every description of WROUGHT IRON TUBES for Locomotive and Marine Boilers, Gas, Steam, and other purposes.

PATENT TUBE WORKS, DARLASTON, STAFFORDSHIRE.

FLEXIBLE INDIA-RUBBER PIPES AND TUBING.

For Railway Companies, Brewers, Distillers, Fire Engines, Gas Companies, Gardening and Agricultural purposes, &c.

THE PATENT VULCANIZED INDIA-RUBBER HOSE-PIPES are made to stand hot liquor, and acids without injury—do not become hard or stiff in any temperature (but are always perfectly flexible) and as they require no application of oil or dressing, are particularly well adapted for locomotive engines, railway cranes, fire engines, pumps, gas, beer stations, gardens, and all purposes where a perfectly flexible pipe is required. Made all sizes, from ¼ inch bore upwards, and of any length to order. Vulcanised India rubber garden hose fitted with brass-taps, copper branch and roses complete, ready to be attached to pumps, water-butts, or cisterns. Sole manufacturer, JAMES LYNE HANCOCK, Goswell mews, Goswell-road, London.

N.B. Vulcanised India-rubber washers of all sizes for joints of hot-water and steam pipes, and vulcanised sheet rubber any thickness for all kinds of joints, and other purposes.

PATENT TOUGHENED CAST-IRON. Messrs. GARDEN and MACANDREW beg to call the attention of Architects, Builders, Engineers, Iron-founders, &c., to the above description of IRON (Mr. Morries Stirling's patent), which, after numerous trials, experimental and practical, is found greatly to exceed all other cast-iron in tensile and transverse strength, as well as in resistance to crushing forces. Several of the most extensive iron masters have been licensed, and from them, or their brokers, the patent iron can be procured. Messrs. GARDEN and MACANDREW have always a stock of this iron in pigs, and are ready to execute orders to any extent on the shortest notice.

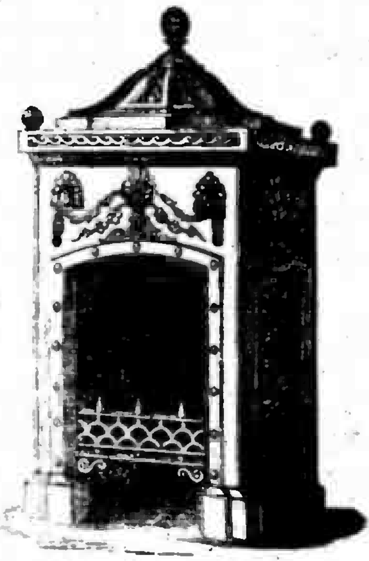
17, Queen-street, Cheapside, November, 1848.

GAS-FITTINGS, LAMPS, and CHANDELIERS.—THOMAS LEDGER, 173, Aldersgate-street, London (two doors from Little Britain), Brass-founder, Gas-fitter, and Manufacturer of Chandeliers, Lamps, and every description of Gas-fittings. Estimates furnished, and experienced workmen sent to any part of town or country. Builders and the Trade supplied.—Warehouse and Show-rooms, 173, Aldersgate-street; Workshops and Foundry, 132, Aldersgate-street.

PIERCE'S NEWLY-INVENTED
PATENT PYRO-PNEUMATIC PURE WARM AIR SELF-ACTING AND VENTILATING STOVE-GRATE,

SPECIALLY ADAPTED FOR

CHURCHES, CHAPELS, INFANT AND OTHER SCHOOLS, PUBLIC BUILDINGS OR PRIVATE DWELLINGS, BANKING HOUSES, RAILWAY OFFICES PICTURE GALLERIES, ENTRANCE HALLS, LECTURE ROOMS, INVALIDS' APARTMENTS, &c. &c.



Sketch of the Pyro-Pneumatic Stove-Grate.

PIERCE, after the most mature study and careful consideration, based on numerous experiments, during his practical experience as a manufacturer for upwards of thirty years, upon the nature and properties of Heat and Ventilation, has at length succeeded in producing that long-sought desideratum—a healthful and salubrious atmosphere, such as is only felt on a pleasant summer's day, and which can, by the use of this, his PATENT PYRO-PNEUMATIC STOVE-GRATE, be enjoyed during the most dull and dreary of our winter months; and is specially adapted for all large PUBLIC ROOMS, INFANT AND OTHER SCHOOLS, CHAPELS OR CHURCHES, as it is economical in its first cost, and very much so in its practical use, burning a less quantity of fuel than any other stove-grate, yet producing a larger quantity of pure warm air than could possibly be credited, until authentically proved and experienced.

PIERCE'S PYRO-PNEUMATIC STOVE is the most powerful and economical grate that has yet been submitted to public notice, constantly burning with the clear, OPEN, CHEERFUL, RADIATING FIRE (not being at any time an enclosed stove), requires no attention or management, and cannot be put out of repair, as its principle of construction is wholly self-acting, and distributing in all portions of the space in which it is placed the benefits of PERFECT WARMTH WITH HEALTHFUL VENTILATION, and is made of various sizes, so as to provide the requisite quantity of warmth and circulation of air, suitable to the spaces which they are intended to warm; and, in like manner, the casings of these grates are made of various dimensions, and at prices adapted for the situation for which they may be required,—from the unadorned SCHOOL-ROOM, at a very moderate and economical cost, to others for the beautiful GOTHIC CHURCH, the enriched ENTRANCE HALL, or SPLENDID GALLERY, in which the price will be governed by the embellishment; but it is not in any case an expensive Stove—in fact, it is the most economical Stove-Grate that can be made use of, the small size not consuming more than twenty-one pounds of coals in twelve hours, and the largest size not exceeding sixty pounds weight in the same time; and being constructed upon the most simple and unerring principle, requires no more attention than the ordinary Grate; and although the most powerful in producing warmth, consumes a smaller quantity of fuel than any other. The external casing of the PYRO-PNEUMATIC STOVE-GRATE, being the only portion that is formed of Metal (with the exception of the bars and bottom), is so arranged, that in no case does the metal partake of any degree of warmth that can possibly affect the purity of the air; whilst in every other description of Hot Air Stove the purity of the air is wholly destroyed and rendered unfit for respiration; nor is there any other Stove-Grate that Ventilates and warms at the same time equal to this PATENT PYRO-PNEUMATIC STOVE-GRATE.

Notices of the Public Press upon Pierce's Patent Pyro-Pneumatic Stove-Grate.

From *Herapath's Railway Journal*, Feb. 10, 1849.

"The object of this invention is to warm buildings or apartments, and at the same time to ventilate them, by a constant supply of fresh warm air. This is effected by means of an open Stove Grate, the whole of the heating surfaces of which are formed of masses of the purest *Anthracite Fire Loam*, rendered perfectly free from any admixture of iron, and closely cemented together. In the sides and back of this stove are formed various passages and tubes, which are heated by the fire in the grate. The fresh air from the external part of the building is admitted into an air chamber formed at the basement of the stove. The fresh air from this chamber ascends through the heated passages and tubes constructed in the sides and back of the stove, and passes into the apartment from the top of it. By this arrangement Mr. Pierce secures a constant supply of fresh air, which is warmed in its passage into the room, while the foul air is constantly carried off by the draught of the fireplace. The air is heated, and enters the apartment without coming in contact with any metallic substance, or producing any perceptible draught. Another great advantage in the use of this stove is *its great economy and radiating power*; it shews a clear, bright, open fire, requiring no management, its principle of construction being wholly self-acting. The external casing of this stove grate being the only portion that is formed of metal (with the exception of the bars and bottom), is so arranged that in no case does the metal partake of any degree of warmth that can possibly affect the purity of the air."

From *The Literary Gazette and Journal of the Belles Lettres*, February 3, 1849.

"We have this week inspected Mr. Pierce's Pyro-Pneumatic Stove-grate, which for *Warming and Ventilating Buildings and Rooms* (from the church to the infant school-room, or to the apartment of the invalid) seems to us admirably adapted. The objections to stoves, generally, over-heating, charring, &c., appear to be entirely removed in this new arrangement, and the cheerfulness of the open fire is combined with a *simple and self-acting plan for a constant supply of warm and wholesome air*. The whole stove is constructed of the fire lump, with fluted slabs of pure anthracite fire loam, and a hollow saddle back of the same, over which the flame passes to a down draft; through the fluted sides and hollow back of the above the external air being introduced is constantly circulating; and the Welch lumps of baked anthracite loam is the only substance with which the air comes in contact. The external casing alone (besides the bars and bottom of the grates) is of metal, and this ornamental casing may be filled in with glass, enamel, marble, or other similar substances suitable to the building or room where the stove may be placed, as no injury can occur to them from the heat of the stove under any circumstances."

From *The Standard*, February 3, 1849.

"Mr. Pierce, of Jermyn-street, the inventor, who has deservedly acquired a reputation for his practical knowledge of VENTILATION and COMBUSTION, having issued invitations to the scientific and others concerned in such important departments, and impressed with the urgent necessity for improvement in these essentials for the health of an increasing population, we attended at the private exposition, and can recommend this STOVE GRATE with a full conviction of its usefulness. The inventor grounds his claim to merit on the SANITARY EFFECTS of his stove, from its power of drawing in, by means of an air shaft, large volumes of external atmosphere, which becomes warmed and purified in its passage through perforated tubes of anthracite fire loam (the whole of the stove being composed of this material) and constantly evolved in a pure and *delightfully refreshed state through every part* of the edifice in which it is used, and as the air becomes deteriorated it is drawn back to feed the combustion, and thence passed off by the flue and ventilating shaft. The effect thus produced is magical. There is a warmth and *dryness* in the air breathed from its influence and a glow from its cheerful open fire, which made us forget that it was a February day and the external atmosphere cold and foggy."

From *The Weekly News and Financial Economist*.

"We have been favoured with a view of a stove grate constructed and patented by Mr. Pierce, of Jermyn-street, which effects that desirable combination which has hitherto been so difficult of attainment, viz., an *equable warmth with efficient ventilation*. These two important ends are accomplished by this apparatus at one and the same time; and this by an arrangement as simple as it is effective. One great improvement effected by this invention is, that the stove itself, though containing a fire which may be made of any required power, never becomes (like other hot air stoves) intensely hot. There are scarcely five degrees more heat at the sides or back of this stove grate than at a distant part of any well-constructed apartment."

From *The Ladies' Newspaper*, February 3, 1849.

"SANITARY INQUIRY AND FRESH AIR.—At a time when sanitary inquiry is so busy, and has so much reason to be so—when cholera invades our hospitals, prisons, and public institutions (for the most part ill-warmed and ventilated)—it is gratifying to find that persons competent to apply practically the principles of science, come forward in the cause of human endeavour. Among the foremost of these is Mr. Pierce, whose experiments on caloric have led to the invention of the *Pyro-Pneumatic* Stove Grate, which comprises both heat and ventilation; thus the largest apartments are filled with warmth and pure *fresh* air at the same time. Many of the nobility and men of science are among the daily visitors at the exposition of this invention, in Jermyn-street."

From *The Tablet*, February 3, 1849.

"MR. PIERCE'S STOVE FOR SCHOOLS AND CHURCHES.—Mr. Pierce, of Jermyn-street, has perfected a most admirable stove, adapted for all apartments, domestic or otherwise, but more especially suited to the warming of *halls, places of public meeting, schools, and churches*. It appears a handsome ornament in its plain state, with the simple iron framing and slate sides, a considerable expanse of common coals shining through, the usual bars or grating being open as in the usual domestic fire-place. This gives out heat by radiation to a great extent, nothing being lost; but much of the genial influence passes in the shape of *heated air* through the perforated pipes, and is thence transmitted through apertures in the frame. The *air from this stove has no disagreeable smell*, no exhalations from the combustion of iron, or of the sulphurous compounds in the coal, all these being carried off or destroyed by the fire lump with which it is surrounded. The smoke is carried off downwards to the chimney shaft, and the disastrous effects of the close stove wholly avoided. The air of the room is warm, *but it is also pure*; the most phlegmatic or asthmatic need not *fear to breathe it*, and the hearty glow of the exposed and cheerful fire is sympathetically warming. The coal consumed according to the experiments does not exceed fifty pounds per day, and one such stove will suffice to warm a good sized church, and requires no addition of fuel or attention during the longest service. We would strongly recommend practical men, who are interested in schools or churches, to inspect the stove, and consider the improvements effected."

From *The Railway Chronicle*, February 3, 1849.

"We would direct the attention of the builders of railway stations and refreshment rooms, and indeed of all who value the comfort of summer warmth free from draughts of cold air in their apartments, to a newly-invented stove-grate, just brought before the public by Mr. Pierce, of Jermyn-street. We have long sought the desideratum now supplied, namely, *a pure atmosphere within doors*; the invention now under notice perfectly attains this object, at least as far as the external air is pure. We recommend those who are engaged in building, or about to begin, to inspect the one now in operation at the manufacturer's warehouse. Though we speak of it as peculiarly applicable to railway offices, it is, of course, equally so for all other like purposes, whether they are public establishments or private dwellings."

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